# STIC Search Report

## EIC 2100

**USPTO** — Scientific & Technical Information Center

## STIC Database Tracking Number: 164006

| | |
|---|---|
| **TO: James D Rutten**<br>**Location: RND 5A34**<br>**Art Unit : 2192**<br>**Friday, August 26, 2005**<br><br>**Case Serial Number:  09/688268** | **From: Geoffrey St. Leger**<br>**Location: EIC 2100**<br>**Randolph-4B31**<br>**Phone: 23450**<br><br>**geoffrey.stleger@uspto.gov** |

## Search Notes

Dear Examiner Rutten,

Attached please find the results of your search request for application 09/688268. I searched Dialog's patent files, technical databases and general files; along with the Internet.

Please let me know if you have any questions.

Regards,

Geoffrey St. Leger
4B31/x23540

**sira**
Search and Information
Resources Administration

**USPTO**

| | |
|---|---|
| Today's Date: 8/26/05 | **What date would you like to use to limit the search?** |
| | Priority Date:    10/13/2000    Other: |

Name _____J. Derek Rutten_____

AU _____2192_____ Examiner # __79877___

Room # ___5A34_____ Phone ___23703__

Serial # _____09/688,268_____

**Format for Search Results (Circle One):**

PAPER        DISK        (EMAIL)

**Where have you searched so far?**

(USP)  (DWPI) (EPO) (JPO) (ACM) (IBM TDB)

(IEEE) (INSPEC) SPI        Other _____

**Is this a "Fast & Focused" Search Request? (Circle One)( YES )    NO**
A "Fast & Focused" Search is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2100 and on the EIC2100 NPL Web Page at http://ptoweb/patents/stic/stic-tc2100.htm.

What is the topic, novelty, motivation, utility, or other specific details defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, definitions, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract, background, brief summary, pertinent claims and any citations of relevant art you have found.

Microcode, or firmware, is software that controls the low-level processes of computer hardware. This software is permanently stored on a computer chip inside computing devices. Occasional bugs in the firmware require updates. Updating the firmware can occur by exchanging the chips, or by reprogramming them through an interface of the device.

The claims call for updating the microcode of a printer by embedding the update in a print job submitted by a computer.

The closest art I could find does not beat the filing date: US 2004/0120001 A1 by Boldon

| | |
|---|---|
| STIC Searcher _Geoffrey St-Leger_ Phone _23540_ | |
| Date picked up __8/26/5__    Date Completed__8/26/5__ | |

**Google**   reprogram flash "print job"         Search

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# Web                              Results **1 - 10** of about **198** for <u>reprogram flash "print job"</u>. (0.45 seconds)

[PDF] **Flash DIMM Technology**
File Format: PDF/Adobe Acrobat - <u>View as HTML</u>
Because **Flash**. chips are easy to **reprogram, Flash** memory is ... data with each
**print job**. As a result, network. traffic is reduced. Increased Manageability ...
www.stethos.com/**flash**memory/data/paper.pdf - <u>Similar pages</u>

[PDF] **white paper**
File Format: PDF/Adobe Acrobat - <u>View as HTML</u>
... Because **Flash** chips are easy to **reprogram, Flash** memory is ... **Flash** DIMMs, available
in 2, 4, and 8 ... to repeatedly transmit additional data with each **print job**. ...
www.docsolutions.fi/.../whitepapers/wp_**flash**_ dimm_technology.pdf?
PHPSESSID=0f6e1246ebf98c12aa271c16675e9ed3 - Supplemental Result - <u>Similar pages</u>

**freshmeat.net: Editorials - Network Printers and Other Peripherals ...**
With this backdoor, a remote attacker could access and **reprogram** the ROM
unauthenticated ... Most printers offer some sort of **print job** completion message, ...
freshmeat.net/articles/view/445/ - 101k - Aug 24, 2005 - <u>Cached</u> - <u>Similar pages</u>

[PDF] **Print Server Installation Guide**
File Format: PDF/Adobe Acrobat - <u>View as HTML</u>
The EPS cannot print multiple copies of the **print job** when using the "-#n" lpr.
option. ... code and **reprogram** its **flash**-ROM. LOGOUT option. <nothing> ...
www.lantronix.com/pdf/epsx-100.pdf - <u>Similar pages</u>

[PDF] **MPS LPS**
File Format: PDF/Adobe Acrobat - <u>View as HTML</u>
The MPS cannot print multiple copies of the **print job** when. using the -#n lpr
option. ... **reprogram** its **flash**-ROM. <nothing>. Logs out the current port ...
www.lantronix.com/pdf/MPS100_LPS1-T_UG.pdf - <u>Similar pages</u>

**OEM Software Development Projects at Software Technolgies Group**
Ported a command line and GUI based custom **print job** controlling software to 4
... download and **reprogram** on board **FLASH** memory without manual intervention. ...
www.stg.com/projects/oem.html - 24k - <u>Cached</u> - <u>Similar pages</u>

**SGI TPL Browse Man Pages (User Commands (1))**
**flash** (1M) - **reprogram** the **flash** PROM hardware on Origin and OCTANE machines ...
netprint (1M) - Submit lp **print job** to remote spooler via a network ...
techpubs.sgi.com/library/tpl/cgi-bin/ browse.cgi?coll=0650&db=man&pth=/cat1 - 450k - <u>Cached</u> - <u>Similar pages</u>

**The Goleta Publisher - May 1996**
This means that you can **reprogram** the ROM chips of your modem entirely from ...
However, **Flash** ROM based modems are still fairly new and somewhat expensive. ...
www.troutcom.com/gdtpug/9605.html - 23k - <u>Cached</u> - <u>Similar pages</u>

**Yahoo! Groups : lprng Messages : Message 1566 of 13119**
will be run at the start of each **print job**. This special function ... At an
enormous charge, various printer vendors will **reprogram** their EEPROMS ...
groups.yahoo.com/group/lprng/message/1566 - 17k - <u>Cached</u> - <u>Similar pages</u>

Google™

pjl                                            [Search]   Advanced Search
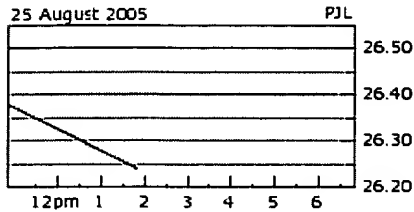                                                          Preferences

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**Web**                                          Results **1 - 10** of about **194,000** for pjl. (0.28 seconds)

## PJL  (ML DEP 7.625 PFDPLUS)

25 August 2005                          PJL
                                              26.50

                                              26.40

                                              26.30

                                              26.20
12pm  1   2   3   4   5   6

**26.24**  25 Aug at 4:00PM ET

Open: N/A        Volume:      N/A
High: N/A        Avg Vol:   1,000
Low:  N/A        Mkt Cap: 78.72M

NYSE data delayed by 20 minutes - Disclaimer

## Overview Of Printer Job Language (**PJL**)
A descriptive overview of the **PJL** concept from HP, brought to you by Computer
Support Group.
www.csgnetwork.com/hp**pjl**.html - 12k - Cached - Similar pages

## www.maths.usyd.edu.au:8000/u/psz/ps.html
Similar pages

## HP LaserJet Printers - Common **PJL** Commands for Front Panel ...
QUESTION: What are the **PJL** commands for HP LaserJet printers? ANSWER: **PJL** commands
are commonly used to change default menu settings for the HP LaserJet 4 ...
www.math.cas.cz/~jarnik/utl/HP/PJL%20Commands.html - 64k - Cached - Similar pages

## **PJL** Enterprises. Decorative wood carving and pyrography tools for ...
**PJL** Enterprises. Featuring the SMC Optima line of fine Micro Motor, Pyrography,
and Dust Collection systems.
www.carvertools.com/ - 3k - Cached - Similar pages

## PostScript error offending command @**PJL**
Offending command: @**PJL**. A PostScript error "undefined", offending command @**PJL**
or %-12345X means the printfile was indended for a Hewlett Packard printer. ...
www.prepressure.com/ps/dbase/**pjl**.htm - 3k - Cached - Similar pages

## HP Printer Job Language (**PJL**)
**PJL** has certain job requirements that must be met to work correctly. Jobs that
satisfy the following requirements work well with all **PJL** printers either in ...
www.cs.ust.hk/~csandrew/**pjl**.htm - 4k - Cached - Similar pages

## **PJL** Commands
**PJL** Commands. This section lists the available commands for the printer job ...
For more information on **PJL**, refer to the Printer Job Language Technical ...
support2.epson.net/manuals/ english/page/epl_5800/REF_G/APCOM_4.HTM - 10k - Cached - Similar pages

## SourceForge.net: Project Info - **PJL** Compressing Filter
Project: **PJL** Compressing Filter: Summary ... Project UNIX name: **pjl**-comp-filter
Registered: 2004-05-25 13:07 Activity Percentile (last week): 97.34 ...
sourceforge.net/projects/**pjl**-comp-filter/ - 43k - Cached - Similar pages

## PAS 2.0: Printers: **PJL**
The following is a list of **PJL**-based printers believed to be compatible with
Printer Accounting Server's **PJL** page counter. Not all the printers on the list ...

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+printer +(update upgrade) firmware microcode          **SEARCH**

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Terms used: printer update upgrade firmware microcode                    Found 2,129 of 160,457

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Best 200 shown                                                        Relevance scale ☐ ▭ ▬ ■ ■

**1**  Illustrative risks to the public in the use of computer systems and related technology    ■
Peter G. Neumann
January 1996 **ACM SIGSOFT Software Engineering Notes**, Volume 21 Issue 1
Full text available: 🔺 pdf(2.54 MB)        Additional Information: full citation

**2**  Pipeline Architecture                                                                    ▬
C. V. Ramamoorthy, H. F. Li
January 1977 **ACM Computing Surveys (CSUR)**, Volume 9 Issue 1
Full text available: 🔺 pdf(3.53 MB)        Additional Information: full citation, references, citings, index terms

**3**  Trends in non-software support for input-output functions                                ▬
Ken J. McDonell
January 1977 **Proceedings of the 3rd workshop on Computer architecture : Non-numeric processing**, Volume 6 , 9 , 12 Issue 2 , 2 , 1
Full text available: 🔺 pdf(787.60 KB)    Additional Information: full citation, abstract, references, index terms

  Input-output subsystem architectures have evolved over the past 20-odd years to the point
  where two divergent approaches have found acceptance in current computer systems; the
  'IBM channel' is the archetype of the lower level alternative, while the functionally more
  complex techniques involve a wide spectrum of distributed processor architectures
  supporting database and/or storage management functions independently with respect to
  the central processor. The paper traces the historical devel ...

**4**  The new (1982) Computing Reviews classification system—final version                     ▬
Jean E. Sammet, Anthony Ralston
January 1982 **Communications of the ACM**, Volume 25 Issue 1
Full text available: 🔺 pdf(731.04 KB)        Additional Information: full citation, citings, index terms

**5**  OS X: a ten-step program                                                                 ▬
Crystal R. Miller, Henry R. Bent
October 2004 **Proceedings of the 32nd annual ACM SIGUCCS conference on User services**
Full text available:                        Additional Information:

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USPTO

Search:   ◉ The ACM Digital Library   ○ The Guide

| +printer +update +job +embedded +(firmware microcode) | | **SEARCH** |

THE ACM DIGITAL LIBRARY

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| Terms used **printer update job embedded firmware microcode** | Found **5** of **160,457** |

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Relevance scale ☐◻▭▣■

**1 Implementing an IPP client and server for Linux**
Peter Michalek, Michael Sweet
December 1998 **StandardView**, Volume 6 Issue 4

Full text available: 🔲 pdf(470.41 KB)     Additional Information: full citation

**2 On-line Text Editing: A Survey**
Andries van Dam, David E. Rice
September 1971 **ACM Computing Surveys (CSUR)**, Volume 3 Issue 3

Full text available: 🔲 pdf(1.91 MB)     Additional Information: full citation, abstract, references, citings, index terms

This paper is a survey of current methods for the on-line creation and editing of computer programs and of ordinary manuscripts text. The characteristics of on-line editing systems are examined and examples of various implementations are described in three categories: program editors, text editors, and terminals with local editing facilities.

**3 Status report of the graphic standards planning committee of ACM/SIGGRAPH: State-of-the-art of graphic software packages**
Compuater Graphics staff
September 1977 **ACM SIGGRAPH Computer Graphics**, Volume 11 Issue 3

Full text available: 🔲 pdf(9.03 MB)     Additional Information: full citation, references

**4 Micro-SIMPAS: A microprocessor based simulation language**
Raymond M. Bryant
March 1981 **Proceedings of the 14th annual symposium on Simulation**

Full text available: 🔲 pdf(899.48 KB)     Additional Information: full citation, abstract, references, citings, index terms

SIMPAS [1] is a discrete system simulation language based on PASCAL. UCSD PASCAL [6] is a PASCAL-based operating system designed for microcomputer use. Micro-SIMPAS is a version of SIMPAS which runs under UCSD PASCAL. This paper discusses the conversion of an existing SIMPAS implementation into Micro-SIMPAS, and discusses our experience in using Micro-SIMPAS for the construction of some simple simulations. We also discuss new features of Micro-SIMPAS for the interactive display of simulatio ...

**5**

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| IEE JNL | IEE Journal or Magazine |
| IEEE CNF | IEEE Conference Proceeding |
| IEE CNF | IEE Conference Proceeding |
| IEEE STD | IEEE Standard |

**Modify Search**

(((firmware <or> microcode) <and> embedded <and> (job <or> file))<in>metadata)   »
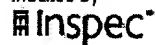
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☐    1. **PC supported motor drive controller**
Drevensek, D.; Urlep, E.; Curkovic, M.;
Industrial Electronics, 1999. ISIE '99. Proceedings of the IEEE International Sympo:
Volume 2, 12-16 July 1999 Page(s):647 - 650 vol.2
Digital Object Identifier 10.1109/ISIE.1999.798688

AbstractPlus | Full Text: PDF(500 KB)    IEEE CNF

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| **IEEE JNL** | IEEE Journal or Magazine |
| **IEE JNL** | IEE Journal or Magazine |
| **IEEE CNF** | IEEE Conference Proceeding |
| **IEE CNF** | IEE Conference Proceeding |
| **IEEE STD** | IEEE Standard |

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| IEE JNL | IEE Journal or Magazine |
| IEEE CNF | IEEE Conference Proceeding |
| IEE CNF | IEE Conference Proceeding |
| IEEE STD | IEEE Standard |

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| L4 AND (usb Or parrellel) | 16 |

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EPO Abstracts Database
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Derwent World Patents Index
IBM Technical Disclosure Bulletins

**Search:**

L5

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## Search History

**DATE: Friday, August 26, 2005**    Printable Copy    Create Case

| Set Name side by side | Query | Hit Count | Set Name result set |
|------|-------|-----------|----------|
| | *DB=USPT; PLUR=NO; OP=OR* | | |
| L5 | L4 AND (usb Or parrellel) | 16 | L5 |
| L4 | L1 and (print ADJ job) | 105 | L4 |
| L3 | L2 AND ((download OR update) NEAR Firmware) | 34 | L3 |
| L2 | L1 AND ((record ADJ layout) OR (record) OR (data ADJ structure) OR (ADT) OR (abstract ADJ data ADJ type)) | 1064 | L2 |
| L1 | (firmware OR microcode)AND printer and update | 1747 | L1 |

END OF SEARCH HISTORY

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